

Instruction Manual



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You have just purchased Airfree that combines a second to none efficiency with a friendly environmental technology.

Airfree is manufactured with advanced and safe technology proven by world wide independent institutions as extremely effective in the elimination of airborne microorganisms, allergens and ozone.

Airfree products are manufactured in a modern European factory with ISO, CE, UL, and other international certifications.

Airfree's main objectives are quality, effectiveness and customers' satisfaction.

Indoor Air Pollution

Our Invisible Enemies

AIRBORNE VIRUSES, BACTERIA and MOLD

Nowadays human beings spend 90% of their time indoor either at their home or at work. According to the American EPA, indoor air pollution can be up to 50 times greater than outdoors.

That is the reason why indoor air treatment is so important for a healthy living, less exposed to allergy triggering sources and airborne transmittable diseases such as SARS, flu, pneumonia, meningitis and others.

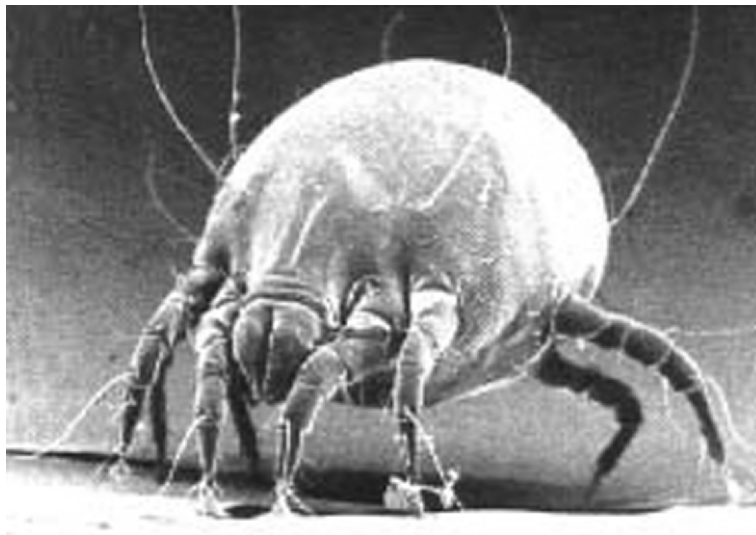
Airfree safely destroys 99.99% of all microorganisms (viruses, bacteria, fungi) that pass through its patented ceramic core. Airfree also reduces indoor toxic ozone levels.

Airfree average 14m³/hour air sterilizing flow constantly sterilizes the air protecting the indoor environment. Airfree efficiently and silently destroys any microorganism regardless of how hazardous and lethal they might be.

Countless tests performed by independent international institutions guarantee the drastic airborne microorganism and ozone reduction.

Airfree is an indispensable to help preventing airborne transmittable diseases.

Allergies and Dust Mites



The Dust Mites

Dust mites are microscopic insects and one of health's largest enemies. Millions of dust mites exist in all houses no matter how clean they are. Studies and tests confirm that more than 5,000 dust mites can be found in just one gram of dust. They are everywhere: in clothes, carpets, sofas, mattresses, cushions and even in food products.

Allergies and Dust Mites (continued)

After house vacuuming (no matter how powerful the vacuum cleaner), an enormous quantity of dust mites still remain.

Dust mites average life is around 4 months, producing in that period 200 times its weight in feces.

Young children when exposed to dust mites can develop allergic diseases. A study published by the University of Virginia concluded that children exposed to dust mites had a larger tendency to develop asthma.

Harmful fungus contained in dust mite feces can trigger respiratory allergies when inhaled. Dust mites cause 70% of all respiratory allergies.

Unlike the pollens that provoke allergies during spring the dust mite allergy can be felt throughout the year. In cold weather the dust mite allergies are intensified because people spend more time indoors.

Reduction in dust mite population is a must in every home and working place to avoid allergy symptoms and potential allergy development in young children as seen above.

How to REDUCE house dust mite population?

Besides Airfree the following are some additional preventive measures

Cleaning

House to be cleaned and vacuumed once a week with open windows.

Bed sheets to be washed and changed twice a week. Expose pillows and blankets to sunlight as much as possible.

Allergies and Dust Mites (continued)

Prevention

- Install Airfree preferably in all rooms.
- Avoid thick carpets and rugs.
- Open windows and expose bedroom to sunshine.
- Avoid books and stuffed animals in bedrooms.
- Wash all washable items at temperatures over 140°F (60°C)
- Replace mattresses and pillows every two years.
- Choose synthetic materials for blankets, covers and cushions.
- Prefer cotton sheets.

Airfree and dust mite population reduction.

Quietly and efficiently Airfree drastically reduces 80% of all airborne microorganisms including any type of fungi and spores, virus and bacteria.

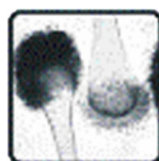
Airfree destroys the extremely harmful toxins and fungus freed by dust mite feces that trigger respiratory allergies.

Applications



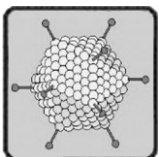
Healthy rooms with pure clean air.

Airfree's noiseless and efficient technology provides constant air cleaning and elimination of continuous growth of indoor air pollution in homes, offices, libraries, museums, public buildings, schools, kindergartens, food industries, military installations and wherever low levels of indoor air pollution is required



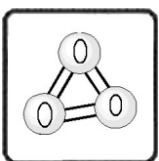
Mold / Mildew

Mold and mildew are fungi and consequently are also drastically reduced by Airfree. No more mildew in leather and cloth articles even in houses in high moisture areas. Airborne black mold and its spores are destroyed inside Airfree's interior ceramic core at high temperatures. Say good bye to mold and mildew with Airfree.



Viruses and Bacteria

Viruses and bacteria are usually destroyed at temperatures well under 400° F (200° C). That includes the most lethal and small microbes such as SARS and meningitis. Airfree destroys all those airborne health threatening microorganisms.



Ozone

Toxic gas that can damage lung tissue, causes chest pain, lack of air, throat irritation and can also trigger asthma. Airfree destroys indoor ozone.



Restaurants

Airfree offers continuous air sterilization. Each Airfree sterilizes 14m3 of air per hour. Silently Airfree provides that additional protection customers will love to see. All viruses, bacteria that pass through its patented sterilizing ceramic core are destroyed. Restaurants are advised to submit their floor plans to Airfree distributor for proper indication on how to install Airfree units in their facilities

Applications



Hotels and Retire Homes

Most hotels in the world keep windows closed. New viruses, bacteria and mold contamination are constantly being added to those rooms by guests (average 1 guest every 2 days) and servants. The A/C system also adds constant contamination that may include the lethal bacteria legionella. Airfree quietly and efficiently destroys those potential airborne microorganisms like SARS virus, protecting people from airborne diseases and allergic reactions. The use of Airfree in guest rooms demonstrates owners concern on their guests health and contributes to higher occupancy if properly advertised as Airfree protected rooms. Airfree also provides a good line of defence in case of lawsuits as it has independent tests assuring its efficiency.



Hospitals, Clinics and Laboratories

Airborne contamination is quite a problem in most hospitals. With Airfree hospital environment becomes safer. Its efficiency in destroying airborne viruses, bacteria and fungi is extraordinary. Airfree is indispensable in infirmaries, recovery rooms, waiting rooms. Other than those airborne viruses like SARS, meningitis bacteria, Airfree also destroys hazardous fungus and Ozone that affect patients with respiratory diseases. Laboratories no longer need to stop activities for chemical air cleaning gaining one day of work per week.



Schools, Kindergartens

Airborne transmittable diseases are a great concern for parents and principals. Flu, meningitis, pneumonia, rubella, and other microbes flow freely in the air. Airfree constantly and safely destroys those airborne microbes drastically reducing the human contamination risk. The use of Airfree in class rooms shows principals concern with their pupils and reduces the exposure to lawsuits, like in mold affected diseases so common in the U.S.



Libraries and Museums

The spores of fungi that become mold or mildew are always present in the air and on objects. When the temperature and moisture in the environment are suitable for germination, the fungus spore bursts and growth begins, contaminating books, clothing, documents and works of art. Airfree destroys airborne mold and mildew, providing a healthier environment for users and employees.



Offices, Public Buildings,

Populated rooms, corridors and elevators offer a constant contamination risk to employees and users. That situation is aggravated by the flow of hazardous fungi, other microbes coming from the A/C and the ozone generated by computers and photocopiers. The spread of all kinds of airborne transmittable diseases can flourish in those environments. Airfree efficiently destroys all microorganisms that pass through Airfree patented ceramic core. Airfree is a sure weapon in reducing potential airborne contamination by viruses, bacteria, fungi, ozone and all kinds of allergens.



Video, films, slides, sound and optical devices

The absence of airborne fungi and spores in rooms protected by Airfree provides the best environment to store cameras, videos, pictures, slides, negatives and any device potentially affected by fungi. Quietly and safely Airfree protects your belongings and memories.

Applications



Allergic and Asthmatic

Airfree drastic airborne allergen reduction allows cleaner environment for allergic people. Airborne mold, bacteria, dust mite skeletons and feces, ozone are kept to a minimum level.



Babies

Studies show an important fact that reduction in dust mite exposure by young children would lessen the development of asthma.



Dust Mites

Fungus reduction in the ambience leads to a fungus dependent dust mite population decrease. Airfree also destroys airborne dust mites feces and skeletons. These particles are potential asthma and allergic reaction triggers.



Odors

Organic odors are drastically reduced if not eliminated by Airfree.



Kitchens and Pantries

Reduced airborne fungi and spores in Airfree protected areas avoids mildew in cheese, bread, fruits and other food items.



Boats, Cruisers

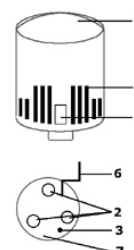
Airfree safely eliminates fungi spores, mold, mildew, dust mite and bacteria that cause those very common problems to boat owners.

Airfree Characteristics

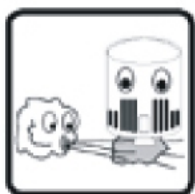
Model	Airfree 60	Babyair
Capacity	2,000 cu.ft (60 m3)	2,000 cu.ft (60 m3)
Air Speed	6.7"/s (17cm/s)	6.7"/s (17 cm/s)
Airflow	504cu.ft /h (14m3/h)	504cu.ft /h (14m3/h)
Ceramica Core Temp.	400-500°F (200-250°C)	400-500°F (200-250°C)
Top External Temperature	142°F (61°C)	142°F (61°C)
Electric Consumption	46W	46W
Voltage	230V or 120V	230V or 120V
Dimensions	8"x10" (20x25 cm)	8"x10" (20x25 cm)
Noise Level	Silent	Silent
Weight	4lbs (1.8 kg)	4lbs (1.8 kg)
Expected life time	5 years	5 years

AIRFREE DESCRIPTION

- 1 - Top lid
- 2 - Feet
- 3 - Fuse (only available in some European countries)
- 4 - Led
- 5 - Grooves
- 6 - Power cord
- 7 - Bottom lid



Airfree Installation and Connection



Airfree is to be placed in a ventilated area for the first two days. Some initial odor caused by the electric components can be released. After two days no odor will be evident



Place Airfree on the floor and plug it in to nearest electric outlet.



After several minutes make sure top lid is warm.

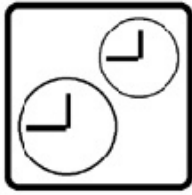


Do not install Airfree over or under furniture, this will disrupt its airflow and reduce its efficiency.



Airfree has limited capacity as previously stated in "Airfree Characteristics" above. If placed in larger rooms than its capacity it will not work properly. For larger rooms install more than just one Airfree.

Airfree Installation and Connection



Airfree must be permanently on (24 hours a day), always on the floor in the same room.



It is not recommended to place Airfree in walking closets and pantries smaller than 400cu.ft (11m3)* to avoid raise in closet/ pantry temperature. Airfree is not to be placed under shelves or its air sterilizing efficiency will be reduced.

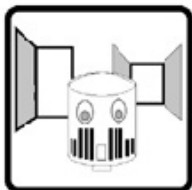
* as a reference 400cu.ft is approximately 7'x7'



Airfree can be installed in central air conditioning rooms or together with heating systems. It is recommended to place Airfree not too close from those appliances as they can cause some interference in Airfree's airflow.



It is not recommended to place Airfree in wet areas. Airfree should also not be placed next to doors or windows as sterilized air can exit the room.



It is not required to keep rooms fully closed. Opening and closing doors and windows will not affect Airfree's efficiency.

Safety Instructions



Airfree cannot be installed on wet surfaces.

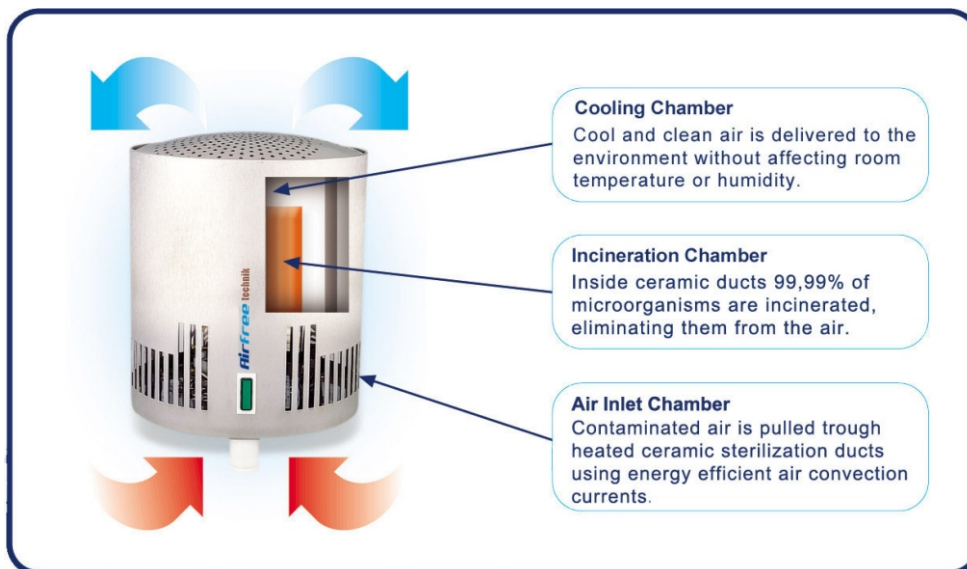


Do not attempt to open Airfree or touch internal parts. Such procedures cause potential hazardous electric shock risk. Also as any electric device it cannot be plunged or placed in water. Only Airfree authorized repair services during and after the warranty have the expertise to open and repair Airfree.



If there is a temporary lack of energy Airfree will recover the lost time and room indoor air will continue to remain clean after a brief period.

Operation & Maintenance



Operation

Contaminated air is sterilized inside Airfree's patented ceramic core.

Airfree's ceramic core has dozens of heated capillaries at a temperature of approximately 400°F (200°C). Airborne micro-organisms are destroyed (incinerated) when passing through Airfree's heated ceramic ducts, regardless of how hazardous or resistant to chemicals they might be.

Sterilized air creates air convection when exhausting Airfree. Such air convection is generated when sterilized air exhausted from ceramic core capillaries generates a negative pressure at said capillaries inlet. Therefore contaminated air is dragged into the ceramic core to be sterilized in a continuous cycle.

Maintenance

Airfree's extraordinary new technology uses just heat to destroy airborne micro-organisms. There are no filters to substitute or moving parts. Consequently maintenance does not exist.

Airfree's technology allows for several years of use in normal conditions if in agreement with this instruction manual.

Independent Efficiency Tests

AIRFREE EFFICIENCY TESTS BY INDEPENDENT LABORATORIES, INSTITUTES AND UNIVERSITIES IN FOLLOWING COUNTRIES.

Laboratory	City/Country	Reduction of Microorganisms		
		Fungus	Bacteria	Total
Technical Micronics Control	Huntsville/ USA	84%	84%	
SGS Natec Institute	Hamburg Germany			98,5%
Univ. Complutense de Madrid / Microbiological Laboratory	Madrid/Spain	90%	62%	
Laboratory Campana / Chemical Laboratory	São Paulo/Brazil	100%	87%	
INETI / Torre do Tombo Portuguese National Archive	Lisbon/Portugal	80%	76%	
INETI / RTP Archive	Lisbon/Portugal	96%	96%	
INETI / Portuguese National Library Newspaper Room Restoration Room	Lisbon/Portugal	69%	83%	
	Lisbon/Portugal	64%	83%	
INETI / Bank Agency	Lisbon/Portugal	87%	72%	
Univ. Nova of Lisbon	Lisbon/Portugal	77%		

Above and other tests can be seen at our website www.airfree.com

Frequently Asked Questions

1. How does Airfree work?

Airfree incinerates microorganisms at its heated capillaries. Contaminated air is dragged into Airfree's ceramic core by air convection and microorganisms are destroyed at high temperatures regardless of how resistant and dangerous they might be.

2. Are there any side effects?

No. Airfree's new technology uses heat to purify the air. No side effects, no emissions, NO IONS, nor new particles are generated. Airfree should be used in all homes and offices quietly, constantly and efficiently purifying the air.

3. What is Airfree's air cleaning capacity?

Airfree was designed for rooms up to 216 sq.ft (24m²). For larger rooms more than one Airfree must be used.

4. Can I install Airfree in my walking closet?

Yes, as long as it has at least 400cu.ft (11m³)*. Airfree should not be placed under shelves or its efficiency will be reduced.

* as reference 400cu.ft (11m³) is approximately 7'x7'

5. Can I use Airfree in air conditioned rooms?

Yes.

6. How do I know if Airfree is no longer working?

Check the top lid and if warm Airfree is working.

Frequently Asked Questions

7. Can I place Airfree at the corridor to reach the whole house?

No. Airfree will just reduce air pollution in the corridor's area.

8. Can I place Airfree in a closed room?

Yes. Please remember such a room must have at least 400cu.ft (11m3)*.

* as a reference 400cu.ft is approximately 7'x7'

9. Is it necessary to keep doors and windows closed?

No

10. Does Airfree eliminate bacteria and viruses?

Yes. Unlike the air filters in the market Airfree is more efficient with smallest microorganisms as they are easily carried by Airfree's airflow into its heated ceramic core.

11. Can I change Airfree from one room to another?

No. Airfree must always be plugged in the same room 24 hours a day. Airfree's patented technology works gradually and cannot have its cycle interrupted. Moving it from one room to another will interrupt the cycle.

12. Should I turn off Airfree when I leave house?

No. Airfree must always be on.

13. What happens if Airfree is disconnected or there was a black out?

Airfree will take approximately the same time to recover the previous reduced contamination level.

14.. Does CADR measure the effectiveness of the Airfree?

Not at all. CADR is not designed to test the Airfree technology.

Airfree requires low air-speed flow when compared with other air purifiers/ air cleaners in the market that rely on a high-speed airflow. Airfree new technology is 99.99% efficient and most important: silent. Airfree destroys (not trap or attract to other surface) any microorganism regardless of how small they might be. 99,99% of all organic particles (virus, bacteria, mold, spores, allergens, microorganisms) are fully destroyed when passing through the Airfree U.S. patented ceramic core. Airfree efficiency was proven by several independent Laboratories and Universities. Airfree independent tests were made in regular day to day use ambiances. In those tested rooms an average 80% reduction in mold and airborne microorganisms was achieved.

Frequently Asked Questions

15. How does Airfree destroy dust mites?

Airfree eliminates dust mites' required fungi used for their food and digestion. For dust mites to survive they need those fungi. Dust mite population is reduced in the same percentage as fungi are destroyed.

16. How does Airfree eliminate fungi?

As mentioned before Airfree eliminates airborne microorganisms included fungi and spores. By eliminating spores no new colonies will be formed, meaning less future fungi and spores in the air. Gradually those fungus colonies will be kept to a minimum.

17. How does Airfree destroy viruses?

Those microscopic microorganisms are easily eliminated inside Airfree's ceramic core capillaries. Inside temperature of Airfree capillaries is triple the temperature required to incinerate them. Airfree is your largest ally in respiratory disease prevention.

18. Does Airfree reduce tobacco smell?

Yes, Airfree reduces any kind of organic smell in the ambience including tobacco.

19. Does Airfree release any gas or chemical product?

No. Airfree's sterilization process is natural. Please check our website for conclusive tests regarding particles and O3.

20. Does Airfree heat up a room?

No. Airfree does not increase room temperature. To have an idea 2 Airfree's plugged in the same room will contribute as much heat as the presence of one adult in that same room.

21. Does Airfree provoke any change in room's the relative humidity?

No.

22. Does Airfree need filter replacement?

No. Airfree's technology uses heat and not filters nor dangerous emissions.

23. Does Airfree consume a lot of energy?

No. Airfree's consumption is just 46 Watts, equivalent to a small light bulb.

24. Can Airfree heated top lid burn children?

No. Just the heated top lid's middle center is around 142°F (61°C), which is not enough to burn a child's hand.

LIMITED WARRANTY

This product is warranted by AIRFREE PRODUCTS, to the original purchaser to be free from defects in material and workmanship under proper use for a period of two years from date of purchase. During this period, and upon proof of purchase and date of purchase, this product will be repaired or replaced with same or similar model without charges for parts or labor (except for a \$10 charge for insurance and handling) at distributor address. To be eligible for the warranty, please complete your warranty card at the time of purchase and mail it to the distributor. To obtain warranty service, please send the product sales receipt or proof of purchase, and a check or money order for \$10 payable to the distributor. This warranty does not apply to a product that has been misused, abused, or altered without limiting the aforementioned, bending or dropping the unit, defects in the electrical installation or fluctuating power levels are presumed to be defects resulting from misuse or abuse.

AIRFREE PRODUCTS and its affiliates or wholesalers do not make any specific claim as to medicinal uses of this product nor does the manufacturer warrant that the equipment prevents some kind of diseases.

NEITHER THIS WARRANTY NOR ANY WARRANTY, EXPRESSED OR IMPLIED, INCLUDING IMPLIED WARRANTIES OR MERCHANTABILITY, SHALL EXTEND BEYOND THE WARRANTY PERIOD. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION DAMAGES, SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS; SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

AIRFREE PRODUCTS HEREBY SPECIFICALLY DISCLAIMS ALL EXPRESSED WARRANTIES NOT OTHERWISE SET FORTH HEREIN AND ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR IMPLIED WARRANTIES FOR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. This warranty gives you specific legal rights; you may have other rights, which vary from state to state.

LIMITED WARRANTY

WARRANTY CERTIFICATE

Airfree Model: _____ Serial Number: _____

Client Name: _____

Address: _____

Telephone: (____) _____

Purchase Date: ____ / ____ / ____

Store Name: _____

Invoice Number: _____



In order to obtain full warranty terms and conditions as stated above please fill in and return Warranty Certificate to Authorized Airfree distributor.



NOTES



www.airfree.com

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